



**RECEIVED**

MAY 1 0 2002

**TECH CENTER 1600/2900**

**PATENT**  
Attorney Docket No. 401544/Mathisen

*HH*  
*Emey*  
*520-02*

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

RATLEDGE et al.

Group Art Unit: 1633

Application No. 10/030,700

Examiner: Unassigned

Filed: January 14, 2002

For: CULTURE OF MICROORGANISMS  
FOR THE SYNTHESIS OF A  
POLYUNSATURATED FATTY ACID

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

- ☒ **within** any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

- ☐ **after** (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes *one* of:
- ☐ the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).
- or*
- ☐ the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).
- ☐ **after** the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).
- ☐ **after** the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and **within** thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).

NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed.

### Copies of the References

- ☒ Copies of the references listed on the enclosed Form 1449 are enclosed herewith.
- ☐ A copy of the foreign search report is enclosed herewith.
- ☐ The references listed on the enclosed Form 1449 were previously identified in the parent application(s) of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) relied upon for an earlier filing date under 35 USC 120 in which copies of the references were previously furnished are set out below:

U.S. APPLICATIONS		Status ( <i>check one</i> )		
U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
1.				
2.				
3.				

**Statement under 37 CFR 1.97(e)**

- ☐ The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.
- ☐ The **undersigned** hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

**Statement under 37 CFR 1.704(d)**

- ☐ The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

**Fees**

- ☒ No fee is owed by the applicant(s).
- ☐ The **IDS Fee of \$180** under 37 CFR 1.17(p) is enclosed herewith.

**Method of Payment of Fees**

- ☐ Attached is a check in the amount of \$ .
- ☐ Charge Deposit Account No. 12-1216 in the amount of \$ . (A duplicate copy of this communication is enclosed for that purpose.)

**Authorization to Charge Additional Fees**

- ☒ If any additional fees are owed in connection with this communication, please charge Deposit Account No. 12-1216. (A duplicate copy of this communication is enclosed for that purpose.)

In re Appln. of RATLEDGE et al.  
Application No. 10/030,770

**Instructions as to Overpayment**

☒ Credit Account No. 12-1216.  
☐ Refund

Respectfully submitted,



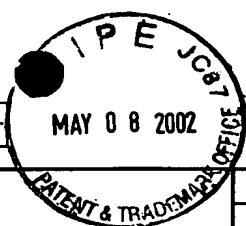
---

Xavier Pillai, Reg. No. 39,799  
LEYDIG, VOIT & MAYER, LTD.  
700 Thirteenth Street, N.W., Suite 300  
Washington, DC 20005-3960  
(202) 737-6770 (telephone)  
(202) 737-6776 (facsimile)

Date: *May 8, '02*

IDS (Rev. 4/19/2002)

Please type a plus sign (+) inside this box →



Substitute for form 1449A/B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

### Complete if Known

Application Number	10/030,700
Filing Date	January 14, 2002
First Named Inventor	Colin Rattledge
Group Art Unit	1633
Examiner Name	
Attorney Docket Number	401544/Mathisen

Sheet 1 of 2

### U.S. PATENT DOCUMENTS

Examiner Initials	Doc. No.	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
		Application or Patent Number	Kind Code			
	A 1	5,244,921		Kyle et al.	9/14/93	
	A 2	5,374,657		Kyle	12/20/94	
	A 3	5,397,591		Kyle et al.	3/14/95	
	A 4	5,407,957		Kyle et al.	4/18/95	
	A 5	5,429,942		Kock et al.	7/4/95	
	A 6	5,492,938		Kyle et al.	2/20/96	
	A 7	5,550,156		Kyle	8/27/96	
	A 8	5,567,732		Kyle et al.	10/22/96	
	A 9	5,658,767		Kyle	8/19/97	
	A 10	5,711,983		Kyle et al.	1/27/98	

### FOREIGN PATENT DOCUMENTS

Examiner Initials	Doc. No.	Foreign Patent Document			Name of Patentee or Applicant	Date of Publication	Translation	
		Office	Application or Patent Number	Kind Code			Yes	No**
	A 1 1	PCT	WO 96/40106		Kyle et al.	12/19/96		
	A 1 2	PCT	WO 99/06585		Gladue et al.	2/11/99		
	A 1 3	PCT	WO 00/54575		Kyle et al.	9/21/00		
	A 1 4	PCT	WO 01/49282		Kyle	7/12/01		
	A 1 5	EP	0 515 460		Kyle et al.	12/2/92		

### OTHER - NON PATENT LITERATURE DOCUMENTS

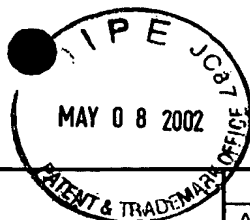
Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No**
	A 1 6	Vazhappilly et al., "Eicosapentaenoic Acid and Docosaheptaenoic Acid Production Potential of Microalgae and their Heterotrophic Growth", Journal of the American Oil Chemists, 75, No. 3, pp. 393-397 (1998)		
	A 1 7	Du Preez et al., "Production of Gamma-Linolenic Acid by <i>Mucor Circinelloides</i> and <i>Mucor Rouxii</i> with Acetic Acid as Carbon Substrate", Biotechnology Letters, 17, No. 9, pp. 933-938 (1995)		
	A 1 8	Vazhappilly et al., "Heterotrophic Production Potential of Omega-3 Polyunsaturated Fatty Acids by Microalgae and Algae-like Microorganisms", Botanica Marina, 41, pp. 553-558 (1998)		
	A 1 9	Pringsheim, E.G., "Micro-Organisms From Decaying Seaweed", Nature, 178, pp. 480-481 (1956)		
	A 2 0	Henderson et al., "Polyunsaturated Fatty Acid Metabolism in the Marine Dinoflagellate <i>Cryptocodinium Cohnii</i> ", Phytochemistry, 30, No. 6, pp. 1781-1787 (1991)		
	A 2 1	Sowers et al., "Growth of Acetotrophic, Methane-producing Bacteria in a pH Auxostat", Current Microbiology, 11, pp. 227-230 (1984)		

Examiner Signature

Date Considered

\* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

$+$ 

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**Complete if Known**

Application Number	10/030,700
Filing Date	January 14, 2002
First Named Inventor	Colin Ratledge
Group Art Unit	1633
Examiner Name	
Attorney Docket Number	401544/Mathisen

Sheet	2	of	2
-------	---	----	---

[illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

- \* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).
- + An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).